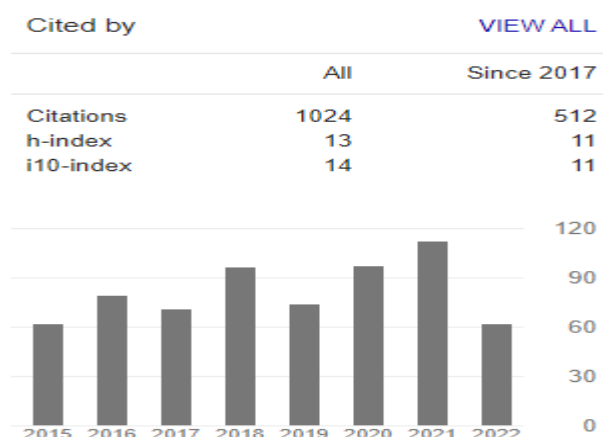


A portrait of a woman with dark hair, wearing a pink top and a pearl necklace, standing against a blue background with a hexagonal pattern and various scientific icons.

Professor,
Department of Energy and Environmental Sciences
Chaudhary Devi Lal University, Sirsa, Haryana, India
E-mail address: rani_sahu@yahoo.com, ranidevi@cdlu.ac.in
Telephone no.: 9650063667

- **PhD (1999-2004) from Indian Institute of Technology Delhi, New Delhi, M. Tech. (1999–2005)**
- **M. Tech. (1998–1999) from Environmental Sciences and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India**
- **M. Sc. (1996 – 1998) from Environmental Sciences, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India**

• Book Published	:	05
• Book Charters Published	:	11
• Research Papers Published in international Journals	:	32
• Research Papers Published in national Journals	:	03
• Papers presented in International Conférences / Seminars	:	19
• Papers / Posters presented in National Conférences / Seminars	:	25
• Papers presented in Regional Conférences / Seminars	:	02
• International/National Conférences/Seminars/Workshops attended	:	25
• Orientation Course / Refresher Course / Training	:	05
• Online international certification/webinar	:	15
• M.Phil guided	:	19
• Ph.D. Guided	:	07



Funded Research Projects

Title :Wetland Ecosystem – A case study of Bhindawas Wetland for Ecological Risk Assessment and its Restoration by using Effective Microorganisms”

Funding Agency : UGC

Amount Sanctioned : 11,38,800/-

Year : 2012-15

Memorandum of understanding (MOU)

- Established an MOU with **The Picardie Jules Verne University in 2008 and French students visited in the department of EES, CDLU Sirsa for research projects under my specialization for several years from 2008 to 2011.**
-

Visiting faculty

- Visiting Professor in **The Picardie Jules Verne University France** through selection by **Scientific Council of the Picardie Jules Verne University France** from 1st week of January 2009-1st week of February 2009.
 - Visiting faculty under United Nations Development Programme (UNDP) from September 2005-July 2007, **Jimma University, Ethiopia, Africa.**
-

Organization of Conferences/Seminars/Environmental Drives

- Organized tree plantation drive in Haryana on the occasion of International Environment Day and planted 2100 trees at village Bahin, District Palwal, Haryana 5th June, 2022.
- National Webinar**, On International Environment Day, online at CDLU Sirsa, Haryana, India, 5th June, 2021.
- International Conference (Convener and Organizing Secretary)** on Energy, Water, Waste Nexus for Environmental Management, at CDLU Sirsa, Haryana, India, 28-30 January, 2012.
- Environmental awareness campaign in Haryana in 2009** and regularly organizing different environmental awareness activities in the university round the year.

- Cleanliness and crackers free Diwali awareness programme in Sant. Kabir School, Sirsa on 09.11.2012.
 - **Environmental awareness campaign** in Haryana about water and energy conservation and sustainable development, 2009.
 - **Awareness programme** on Celebration of Eco-friendly Holi in association of Dainik Bhaskar group, 2012
 - **Enormous Plantation drive** in the campus with collaboration of State Pollution Control Board and Navyug Nirman NGO.
-

Research Achievements:

- Successfully completed One-Week Online National Faculty Development Program on “ **Basics of Research Methodology and Issues in Plagiarism (An Interdisciplinary Approach)**” with ‘A’ Grade by Guru Angad Dev Teaching Learning Centre, a Centre under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education and Department of Business Economics, SGTB Khalsa College, University of Delhi, 31st May to 6th June 2022.
- Successfully completed One-Week Online National Faculty Development Program on “**Development of Teacher’s e-kit and MOOCs in Four Quadrant Format of e-content**” with ‘A’ Grade by Guru Angad Dev Teaching Learning Centre, a Centre under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD, 12th to 20th September 2020.
- **Selected for joint research collaboration with UK scientists** by British Council for UK-India young scientist networking in 2009.
- **Young Scientist award in UK-India Young Scientist Networking Conference**, Energy Scenario of India and UK, Organized by British Council at Taj Mount Chennai, 23-24 March 2009.
- Member of Editorial Board of **International Journal of Scientific Research and Essay**, 2007.
- Visiting faculty under **United Nations Development Programme (UNDP)** from September 2005-July 2007, Jimma University, Ethiopia, Africa.
- **European Commission Fellowship** {YTRID project (GRD1-2001-40374) [5]} to work in **Technical University Eindhoven, Netherlands** in 2003.
- Honored with distinction as a noted and eminent professional in the field of science by **International Biographical Centre Cambridge, England** and a listee of IBC TOP 100 scientists for the year 2012 and named as a member of IBC.
- Selected as the Best Published Work by the **Elsevier Editorial Board** in the Special Publication Issue of 2008.
- Invited for appointment as Editor on the bases of publications by world famous **Nova Publications, New York**, November 2008.
- **Research work recognized by Elsevier Editorial Board, British Council, European Cooperation in Science and Technology-Belgium, International Biographical Centre Cambridge- England, European Commission, Nova Publication-New York.**
- Successfully completed One Week training programme on **Water Quality Monitoring &**

Assessment, Organised by Central Water Commission and Water Quality Assessment Authority, Govt. of India, Ministry of Water Resources, River Development and Ganga Rejuvenation, Yamuna Basin Organization, Delhi, from 23-27 March, 2015

- Successfully completed the three weeks **UGC sponsored Refresher Course** in Environmental Studies, with 'A' grade held by Academic Staff College, Punjabi University Patiala for selection grade, 7-26 November 2011.
- Successfully completed the two weeks **UGC sponsored National Workshop on Research Methodology** with 'A' grade held by Department of Computer Science and Applications, Ch. Devi Lal University, Sirsa, Haryana from 2nd March- 15th March 2011.
- **Organized environmental awareness campaign in Haryana in 2009.** And regularly organizing different environmental awareness activities in the university round the year.
- Successfully completed the four weeks **UGC Sponsored Orientation Course** with 'A' grade held by Academic Staff College, Punjab University Chandigarh for senior scale, 1st to 28th March 2008.

Radio /TV Talk / Invited Talk / Resource Person

- **Keynote Speaker:** Valedictory Session, DGHE Haryana sponsored State level Seminar organized by CMK College Sirsa, Haryana, on Issues of Environmental Health & Toxicology, 13 July, 2015.
- **Keynote Speaker:** Cost Exploratory Workshop on the energy water nexus managing the links between Energy and Water for a Sustainable Future by **European Cooperation in the field of Scientific and Technical Research on special invitation held in Brussels, Belgium from 19-21 January, 2009.**
- **Keynote Speaker:** Energy and its Conservation, Organized by District administration Sirsa, Panchayat Bhawan Sirsa, 22.12.11.
- **Keynote Speaker:** Renewable Energy, District Officers Training Program at Panchayat Bhawan Sirsa, 20.8.2009
- **Keynote Speaker:** National Seminar on Energy Conservation, Organized by District administration Sirsa, Panchayat Bhawan Sirsa, 13.05.08
- **Special Invitee:** As subject expert for discussion and deliberation by **Indian Chamber of commerce** in India International Water Summit 2011, New Delhi.
- **TV Talk:** Delivered a talk on DD channel on the aspect of pollution and particularly effects and remedies of the radiations released from mobile towers, mobiles, laptop and computers etc on 15.10.12 at 1:00 pm.
- **TV Talk:** Delivered a research-based talk on 14 July 2015 at 1:30 PM on Zee News on Maa ke Doodh mai pesticides and conference with child specialist doctors.
- **TV Talk :** Delivered a research-based talk on 15 July 2015 at 2:00 pm on Total TV on Haryana News on Pesticides residue in mother milk and conference with Sh. Anil Viz Ji, Honorable Health Minister of Haryana.

- **TV Talk** : Delivered a research-based talk on 15 July 2015 at 5:00 pm on Pesticides in mother milk and its effects
- **TV Talk:** Awareness programme on TV on DD -1 channel about Environmental issues for generating the awareness on burning topics of environment among masses on 18.10.12
- **TV Talk:** Delivered a TV talk on DD channel on the aspect of pollution and particularly effects and remedies of the radiations released from mobile towers, mobiles, laptop and computers etc on 15.10.12 at 1:00 pm.

Membership of Professional Bodies

Professional: Executive Council, Academic Council, UGBOS, PGBOS, DRC, DRAC, Faculty, University Court, CDLU Sirsa.

Professional :Member of Executive Council (Elected) for tenure of two years (2012-2014)

Professional :Joint Secretary, Ch. Devi Lal University Teacher Association (CDLUTA) (2012-2014)

Professional : Member of Academic Council for tenure (2012-2014 and 2019 - till date)

Professional :Member of faculty of Life Sciences 2020-2022

Professional :Member of Selection Committees

Professional :Member inspection committees

Professional :Member inspection committee to grant of extension in provisional affiliation for B.A., B.Com, BBA, BCA

Lifetime :Membership of Association of Microbiologists of India

Lifetime :Membership of Society of Environmental Scientists

Books

1. Priyanka Singh and **Rani Devi**; Physical Environment "Atmospheric, Aquatic and Terrestrial Environment" (Teaching Guide Manual for PG students); Agri-Biovet Press, 2/40 1st Floor, Ansari Rd, Daryaganj, New Delhi; India; 2020; ISBN: 978-93-84502-99-2; PP 362.
 2. Priyanka Singh and **Rani Devi**; Environmental Studies (For Undergraduates); DBH Publisher and Distributors, 4378/4B, Ansari Road, Daryaganj, New Delhi, India. 2016, ISBN Code 978-93-84871-017, pages 298.
 3. **Rani Devi** and Priyanka Singh; Practical Manual for Physico-Chemical Properties of Soil; DBH Publisher and Distributors, 4378/4B, Ansari Road, Daryaganj, New Delhi, India. 2014, ISBN Code 978-81-92705606, pages 126.
 4. **Rani Devi**, M. Kashif, Pawan, Alok; Edited Book "Energy-Water-Waste Nexus for Environment Management", Narosa Publication, Delhi, India, 2012. ISBN Code-978-81-8487-206-4, pages 318.
 5. Bishaw Deboch, **Rani Devi** and Alebel, Environmental Quality II, Lecture Series, Jimmi Carter Center of USA, Adis Abbaba Ethiopia, 2007, USAID-CA (Cooperative Agreement): 663-A-00-00-0358-00, pages 578.
-

Book Chapters

1. Sangeeta, Gita and **Rani Devi**; An Overview of Effective Concentration of Industrial Effluent for Improving Crop Production and its Effect on Micro-bio zone of soil; Plant Microbe Interface; Plant Microbe Symbiosis, Chapter 19; Plant Biotic Interactions - State of the Art; and Plant Microbiome Paradigm; Ajit Varma, Swati Tripathi and Ram Prasad (Editors), Publication ©2019, Springer Nature Switzerland; pp 393-415. ISBN 978-030-19831-12
 2. **Rani Devi**, Evaluation of Low-Cost Biotechnology for Community-Based Domestic Wastewater Treatment, Biotechnology: Prospects and Applications, ISBN Code-978-81-322-1682-7, © Springer India 2013.
 3. **Rani Devi** and R. P. Dahiya; Integrated Approach for Domestic Wastewater Treatment in Decentralized Sectors; Fluid Waste Disposal; Environmental Science, Engineering and Technology, K. W. Canton, (Editor), Nova Publication, New York, ISBN: 978-1-61122-590-7; pp 249- 264.
 4. **Rani Devi**, Dahiya R.P. and Gadgil K., "Investigation of coconut coir carbon and sawdust based adsorbents for combined removal of COD and BOD from domestic wastewater treatment" Water and Environmental Management Series (International Water Association), Dec. 2002, pp. 1209-1218. ISBN: 1-84339-500-2.
 5. **Rani Devi**, Alemayehu Haddis Getahun, Esayas Alemayehu Tekeste, Argaw Ambellu Bayih, "An Innovative Way for Making Biofuel briquette from Discarded Coffee Husk and Coffee Pulp"; Book Chapter in Energy-Water-Waste Nexus for Environment Management, Narosa Publication, Delhi, India, 2012, pp 51-58. ISBN Code-978-81-8487-206-4.
 6. Pawan Kumar Rose, **Rani Devi**, Manju, "Hexavalent chromium adsorption using low cost adsorbent", Book Chapter in Energy-Water-Waste Nexus for Environment Management, Narosa Publication, Delhi, India, 2012, pp 31-35. ISBN Code-978-81-8487-206-4.
 7. Anita Dalal, **Rani Devi**, "Living with Environment: Green Buildings", Book Chapter in Energy-Water-Waste Nexus for Environment Management, Narosa Publication, Delhi, India, 2012, pp 170-171. ISBN Code-978-81-8487-206-4.
 8. Promila Bishnoi, Navneet Saxena, **Rani Devi**, "Sewage water irrigation impact on soil chemistry and fertility", Book Chapter in Energy-Water-Waste Nexus for Environment Management, Narosa Publication, Delhi, India, 2012, pp 199-201. ISBN-978-81-8487-206-4.
 9. Sanjeev Kumari, **Rani Devi**, Navneet Saxena, "Estimation of imidacloprid in soil samples by HPLC", Book Chapter in Energy-Water-Waste Nexus for Environment Management, Narosa Publication, Delhi, India, 2012, pp 251-255. ISBN Code-978-81-8487-206-4.
 10. Rinky, **Rani Devi**, "Comparison of Physico-Chemical Properties of Waste Water before and after treatment in Effluent Treatment Plant, Vita, Sirsa", Book Chapter in Energy-Water-Waste Nexus for Environment Management, Narosa Publication, Delhi, India, 2012, pp 271-278. ISBN Code-978-81-8487-206-4.
 11. Anita Dalal, **Rani Devi**, "An overview of electrical energy consumption in housing sector of Haryana State", Book Chapter in Energy-Water-Waste Nexus for Environment Management, Narosa Publication, Delhi, India, 2012, pp 285-291. ISBN Code-978-81-8487-206-4.
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Papers in International Journals

1. **Pawan Kumar Rose and Rani Devi**; Heavy metal tolerance and adaptability assessment of indigenous filamentous fungi isolated from industrial wastewater and sludge samples, International Journal of Beni-Suef University Journal of Basic and Applied Sciences, Vol. 7, Issue 4, 2018, pp.-688-694. **Impact Factor**;
2. Sangeeta, **Rani Devi** and Gita; A Study of concentration of sugar mill effluents on properties of soil and type of microorganisms present in the soil, International Journal of Current Botany, ISSN: 2220-4822, 2017, Vol. 8, pp 159-162.
3. Priyanka Singh, **Rani Devi** and R. S. Hooda; Temporal and spatial dynamics of soil desurfacing due to brick kilns effecting Micronutrient status using gis and soil analysis ; International Journal of Agriculture Sciences; ISSN: 0975-3710&E-ISSN: 0975-9107, Vol. 8, Issue 17, 2016, pp.-1311-1317. **Impact Factor**;
4. Priyanka Singh, **Rani Devi** and R. S. Hooda; Temporal and spatial dynamics of soil desurfacing due to brick kilns effecting Micronutrient status using gis and soil analysis ; International Journal of Agriculture Sciences; ISSN: 0975-3710&E-ISSN: 0975-9107, Vol. 8, Issue 17, 2016, pp.-1311-1317. **Impact Factor: 5.012 (2016)**,
5. Priyanka Singh, **Rani Devi** and R. S. Hooda; Spatial Variation of Physico-Chemical Properties of Desurfaced Soils Due To Brick Kilns in NCR (India); International Journal of Multidisciplinary Approach and Studies; ISSN NO:: 2348 – 537X; Volume 03, No.2, Mar-April 2016, pp 119-132. **Impact Factor: 3.312 (2016)**
6. **Rani Devi** and Kavita Rani; Physico-chemical characteristics of sediments of Bhindawas wetland, Jhajjar, Haryana, India; International Journal of Engineering, Technology, Management and Applied Sciences; ISSN 2349-4476, Vol. 3 (Special Issue); Nov. 2015; pp 162-168. **Impact factor**.
7. Priyanka Singh, **Rani Devi** and R. S. Hooda; Impact of soil desurfacing on the physico-chemical properties of the soil of the study area in Haryana. International Journal of Multidisciplinary Research and Development; e- ISSN 2349-4182 & p- ISSN 2349-5979; Vol. 2 (7); July 2015; pp 560-566. **Impact factor 3.762**.
8. Priyanka Singh, **Rani Devi** and R. S. Hooda; Spatiotemporal variation in land use / land cover pattern as influenced by soil desurfacing due to brick kilns in NCR. International Journal of Advanced Scientific and Technical Research; e- ISSN 2249-9954; Vol. 6 (5); September-October 2015; pp 134-146. **Impact factor**.
9. Priyanka Singh, **Rani Devi** and R. S. Hooda; Soil Desurfacing Induced Spatiotemporal Land Use/Land Cover Change in Study Area in the Year 2007 -2012. International Journal of Multidisciplinary Research and Development; e- ISSN 2349-4182 & p- ISSN 2349-5979; Vol. 2 (6); July, 2015; pp 305-312. **Impact factor 3.762**.
10. Priyanka Singh, **Rani Devi** and R. S. Hooda; Dynamics of Soil Desurfacing Due to Brick Kilns and Suggestive Management Techniques; International Journal of Multidisciplinary Research and Development; e- ISSN 2349-4182 & p- ISSN 2349-5979; Vol. 2 (4); April 2015; pp 292-298. **Impact factor 3.762**.

11. Pawan Kumar Rose and **Rani Devi**, Adsorption Isotherm Study of Cadmium on Diary Sludge Based Adsorbent; International Journal for Innovative Research in Science and Technology; Vol 1 (11), 2015, pp. 145-151, **Impact factor 1.638**.
12. Alok Kumar Saran and **Rani Devi**; Efficiency Improvement of Sludge Drying Bed-Design Modification of Present System; International Journal of Multidisciplinary Research and Development; e- ISSN 2349-4182 & p- ISSN 2349-5979; Vol. 2 (4); 2015; pp 32-34. **Impact factor 3.762**.
13. Priyanka Singh, **Rani Devi**, R. S. Hooda and M. P. Sharma; Soil Desurfacing due to unsustainable way of brick making is a hazardous option and deleterious to soil health; International Journal of Advanced Scientific and Technical Research; ISSN 2249-9954; Vol. 5 (4); Sept.-Oct. 2014; pp. 305-317. **Impact factor 2.94**.
14. **Rani Devi**, Kavita, Pawan Kumar Rose, Alok; Energy Audit of a University Campus of Semi- Arid Region, Haryana, India; International Journal of Environmental Engineering and Management. ISSN 2231-1319. Vol. 5 (1); 2014, pp. 1-16. **Impact factor 2.11**.
15. Priyanka Singh, **Rani Devi**, R. S. Hooda, M. S. Grewal; "Map and Identify Desurfaced Soils in Rohtak and Jhajjar District in Last Five Years Using RS"; International Journal of emerging Science and Engineering, Vol. 2 (4); 2014, ISSN: 2319-6378; pp. 27-32. **Impact factor 1.794**.
16. Kumar P, **Devi R** and Singh R; Medicinal Floristic Wealth at Aravalli Hill Range in Khanak (Haryana), India; International Journal of Ayurvedic and Herbal Medicine, Vol. 3 (6); 2013; ISSN : 2249-5746; pp. 1391–1400. **Reviewed and Indexed**.
17. **Rani Devi**, Bishaw Deboch and Vijender Singh; "Rainwater Harvesting Practice: A Key Concept of Energy-Water Linkage for Sustainable Development", International Journal of Scientific Research and Essay, Vol. 6 (1), February, ISSN 1992- 2248, 2012, pp. 538-543. **Reviewed and Indexed**.
18. Rinky and **Rani Devi**, Prediction of Surface Water Input and Soil Concentration of Some Pesticides during Kharif Season from an Agricultural Watershed of Haryana, India, International Journal of Environmental Research and Development. ISSN 0973-6921, Vol. 2, Number 1 (2012), pp. 9-20. **Impact factor 1.613**.
19. Rinky and **Rani Devi**, Quantitative Estimation of Exposure and Environmental Impacts: A Study of Sirsa District of Haryana, India, International Journal of Environmental Research and Development. ISSN 0973-6921, Vol. 1, Number 1 (2011), pp. 9-20 **Impact factor 1.613**.
20. **Rani Devi**, "Innovative technology of COD and BOD reduction from coffee processing wastewater using Avocado Seed carbon (ASC)," International Journal of Water, Air and Soil Pollution, Vol. 207, Numbers 1-4 / March, 2010, pp. 299-306. **Impact factor 1.685**.
21. **Rani Devi**, Vijender Singh, R.P. Dahiya and Ashok Kumar, Energy consumption pattern of a decentralized community in northern Haryana" Journal of Renewable and Sustainable Energy Reviews. Vol. 13, 2009, pp. 194-200. **Impact factor 5.901**
22. Alemayehu Haddis and **Rani Devi**, "Effect of effluent generated from coffee processing plant on the water bodies and human health in its vicinity", International Journal of Hazardous Materials 152 (2008) 259–262. **Impact factor 4.5**.
23. **Rani Devi**, Esayes Alemayehu, Vijender Singh, Ashok Kumar, and Embialle Mengistie, "Removal

- of fluoride, arsenic and coliform bacteria by modified homemade filter media from drinking water” International Journal of Bioresources Technology. Volume 99, Issue 7, May 2008, pp. 2269-2274. **Impact factor 4.494.**
24. **Rani Devi**, Vijender Singh and Ashok Kumar, " COD and BOD reduction from coffee processing wastewater using Avacado peel carbon”, Bioresource Technology, Volume 99, Issue 6, April 2008, pp. 1853-1860. **Impact factor 4.494. In top 20 articles since its publication.**
 25. **Rani Devi**, Esubalew Tesfahune, Worku Legesse, Bishaw Deboch, Abebe Beyene, “Assessment of siltation and nutrient enrichment of Gilgel Gibe dam, Southwest Ethiopia”, Bioresource Technology, Volume 99, Issue 5, March 2008, pp. 975-979. **Impact factor 4.494.**
 26. **Rani Devi** and Dahiya R.P., " COD and BOD removal from domestic wastewater generated in decentralized sectors, Bioresource Technology, Volume 99, Issue 2, January 2008, pp .344-349. **Impact factor 4.494.**
 27. **Rani Devi**, Ashok Kumar and Bishaw Deboch, “Organic Farming and Sustainable Development in Ethiopia”, International Journal of Scientific Research and Essay, Volume 2 (6), June 2007, pp. 199-203. **Reviewed and Indexed.**
 28. **Rani Devi**, R.P. Dahiya, K. Gadgil, Vijender Singh and Ashok Kumar, " Assessment of the Temporal Variation of Ambient Air Quality in a Metropolitan City, Green Pages, Global Directory for Environmental Technology, ECO Services International, 15, (15) Editorial, April 2007, pp. 55-68. www.eco-web.com/edi/070423.html. **Impact Factor 8.8.**
 29. **Rani Devi**, Veldhuizen E.M. V., Grabowski L. and Dahiya R.P., “Efficient Process for Phenol Removal from Water by Generating Pulsed Positive Corona above the Surface”, Green Pages, Global Directory for Environmental Technology, ECO Services International, 12, (12) Editorial, April 2007, pp. 30-34. www.eco-web.com/edi/070429.html. **Impact Factor 8.8**
 30. **Rani Devi**, Dahiya R.P., Ashok Kumar and Vijender Singh, " Meeting energy requirement of wastewater treatment in rural sector”, International Journal of Energy Policy, July 2007, Vol. 35, Issue 7, pp. 3891-3897. **Impact factor 4.844.**
 31. **Rani Devi** and Dahiya R.P., " Chemical Oxygen Demand (COD) Reduction in Domestic Wastewater Treatment by Fly Ash and Brick Kiln Ash, International Journal of Water, Air and Soil Pollution, July 2006, Vol. 174, No. 1-4, pp. 33-46. . **Impact factor 1.685.**
 32. Khaiwal Ravindra, Ameena, Meenakshi, **Monika, Rani**, and Anubha Kaushik, “Seasonal variation in physico- chemical characteristics of river Yamuna in Haryana and its ecological best designated use”, International Journal of Environmental Monitoring, Vol. 5; 2003, pp. 419-426. **Impact factor 1.810.**
-

Paper in Indian Journals

33. Manisha, **Rani Devi**, NPS Yadhuvanshi; Effect of wheat residue with inorganic fertilizers on soil properties, growth and yield of rice (*Oryza sativa*) in partial-reclaimed sodic soils" Journal of Soil Salinity and Water Quality; accepted and will appear in forthcoming issue i.e., Vol 7, Number 2 of the year 2015.

34. Priyanka Singh, **Rani Devi**, R. S. Hooda and M. S. Grewal; Soil Desurfacing: A Potential Threat to Soil Health, Productivity and Fertility; Indian Journal of Research on Crops; ISSN 0972-3226 (print), 23487542 (online); Vol. 15 (3); 2014; pp. 722-729.
35. Kaushik A., Jain S., Dawara J., **Sahu (Devi) R.**, and Kaushik C. P., " Heavy metal pollution of river Yamuna in the industrially developing state of Haryana," Indian Journal of Environmental Health, ISSN 0367-827x, Oct. 2001, Vol. 43, No. 4, pp. 164- 168.

Full length Papers in Proceedings of International/national Conferences held in

Foreign:

1. **Rani Devi**, Ashok Kumar and Vijender Singh, "Menace of Domestic Wastewater Generated and its treatment for COD and BOD Removal -A Case Study of a Village in Haryana, India, International conference on Engineering, Education, Technology and Environment (CEETE-2006), **Jimma University Ethiopia, Africa**", 3rd February 2006; pp. 90-96.

Full length Papers in Proceedings of International/national Conferences held in

India

1. **Rani Devi**, Sapna, Pawan Kumar Rose; Surface and ground water quality assessment of Banwala village of Sirsa district, Haryana, India, International Conference on Climate Change Towards Health and Agricultural Sustainability (CCHAS-2019), Organised by Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology Hisar, 21-25 February, 2019.
2. Manisha, N.P.S.Yaduvanshi, **Rani Devi** and Ajay Kumar; CO₂ and CH₄ Emission from Rice (*Oryza sativa*) in Reclaimed Sodic Soil as Affected by Wheat Residue Incorporation with & without Inorganic Fertilizers; International Conference of Recent Trends in Civil Engineering and Water Resource Engineering (RTCWRE-2017), Organised by Department of Civil Engineering, Holy Mary Institute of Technology & Science, 10-11 August, 2017, pp 108-112.
3. Rinky, **Rani** and Anita, "Wind Energy Potential in Haryana, India", 5th Chandigarh Science Congress (CHASCON - 2011) by Punjab University, Chandigarh; February 26-28, 2011; pp EV9— EV12.
4. Pawan Kumar Rose, **Rani Devi**, Navjot; "Chromium extraction by low cost Eucalyptus bark based biosorbent", 5th Chandigarh Science Congress (CHASCON - 2011) by Punjab University, Chandigarh; February 26-28, 2011; pp ES374— ES377.
5. Rinky, **Rani Devi** and Shaheen, "Energy Accounting and Reporting in Petrochemical Sector: A Study of India" In Proceeding of International conference on Intelligent Systems, Sustainable, New and Renewable Energy Technology and Nanotechnology (IISN-2011) held at Institute of Science and Technology Klawad, Yamuna Nagar, Haryana, from 18-20 February, 2011, pp. T 11-42-T11-44.
6. Anita Dalal and **Rani Devi**; An overview of municipal solid waste management practices in India; In proceeding of National Seminar on Environmental Degradation: Issues and Remedies,

Dayanand College Hisar, Haryana, India, 11th February 2011; pp 147-149.

7. Pawan Kumar Rose, **Rani Devi**, Kiran Rose and Anita Dalal, "Electronic Waste and its Management: An Indian Overview", National Seminar on Environmental Degradation: Issues and Remedies, Dayanand College Hisar; 11th February 2011; pp.153-156.
8. Rinky, **Rani** and Shaheen, "Pattern of personal protective equipment and measures during application of pesticides by agricultural workers in a rural area of Sirsa district, Haryana", In proceeding of National Seminar on Environmental Degradation: Issues and Remedies, Dayanand College Hisar, Haryana, India, 11th February 2011; pp 178-180.
9. Pawan Kumar Rose and **Rani Devi**; Fungal Biosorbents and Biosorption: A Review Article; National Seminar at Sustainable Consumption, Climate Change and Consumers: Towards a Better Future, Center for Consumer Studies, Indian Institute of Public Administration (IIPA), Delhi; 11-12 November 2010; pp. 272-285.
10. Anita Dalal, Promila Bishnoi and **Rani Devi**; Waste Management Practices in Rural India: Effects, Challenges & Remedies, Jan Nayak Choudhary Devi Lal University, Sirsa, Haryana, India, 25-27 February 2010, pp. 11-13.
11. Chamoli Yuvika, **Rani Devi**; Madhuben Sharma and Richa; Biodegradation of PAHs by Thermotolerant Microbes, International conference on Changing Environmental Trends and Sustainable Development (CETAS), Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India, 9- 11 February 2009, pp. 149-153.
12. Pooja, Promila, Chander Mohan, **Rani Devi** and Navneet Saxena; Determination of Fenvalerate in Milk, National Seminar on Food Safety and Quality, Department of Food Technology, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. 20-21 October, 2008, pp 213-15.
13. Promila, Pooja, Chander Mohan, **Rani Devi** and Navneet Saxena; Determination of Cypermethrin Residue in Bovine and Mother's Milk by HPLC Method, National Seminar on Food Safety and Quality, Department of Department of Food Technology, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. 20-21 October, 2008, pp. 222-223.
14. **Rani Devi** and R. P. Dahiya; "Investigations on domestic wastewater spilled in open channels from an urbanized village," International Conference on Energy and Environment-Strategies for Sustainable Development (ICEE-SSD), Organised by Department of Civil Engineering, Indian Institute of Technology, Delhi, India. 23-24 January 2004; PP. P 9-P13.
15. **Rani (Devi) Sahu**, Vijender Sahu, Dahiya R. P. and Gadgil K., " Fly ash based low cost method for COD removal from domestic waste water," 5th annual International conference- Map India 2002, 6th February 2002, pp. 191- 195.
16. **Rani (Devi) Sahu**, "Women in the field of environmental sciences", National Conference of women scientists and technologists: role in national development, Department of women and child development Govt. of India, Vigyan Bhawan, New Delhi, India. 8-9 March 2002, <http://dbtindia.nic.in/women/paper9.htm>.
17. **Rani Devi**, Gadgil K. and Dahiya R. P., " Energy consumption pattern in the villages of Haryana, " Nation Conference on Advances in contemporary Physics and Energy, Organised by Indian

Institute of Technology Delhi, India. February 2002, pp. 276- 281.

18. **Rani (Devi) Sahu, Vinod Rathee and Faiz Ahmad**, "Empowerment of women," National Conference on Feminism and Women's Empowerment, Chindvada, MP, 6-8 November 2001, pp. 196- 202.
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Paper (Oral/Poster) presentation in Conference

1. **Rani Devi**; An Overview of Air Quality in Delhi and NCR- Ban of Crackers on Deewali 2017, National Conference on Climate Change and Sustainable Clean Environment, Organised by School of Earth Environment and Space Studies, 22-23 November 2017. (Oral)
2. **Rani Devi**; An Insight into Present Scenario of Water and Wastewater in Haryana, National Conference on Climate Change and Sustainable Clean Environment, Organised by School of Earth Environment and Space Studies, 22-23 November 2017. (Poster)
3. **Rani Devi**; Access to environmental Justice, International Conference on Legal Dimensions of Environment, Organised by Amity Law School, Amity University Haryana, 27-28 October 2017. (Oral)
4. **Rani Devi**; An Overview of Environmental Awareness and Human Rights, National Conference on Human Rights and Duties Education, Organised by Department of Law, Chaudhary Devi Lal University Sirsa, Haryana, 27-28 September 2017. (Oral)
5. **Rani Devi**; Assessment of Distribution of Micro-biota in Water of Bhindawas Wetland, Jhajjar, Haryana, India; National Conference on Biotechnology: Emerging Trends (NCB-2016); Chaudhary Devi Lal University Sirsa, Haryana, 11-12 February, 2016. (Poster)
6. **Rani Devi**; Physico-Chemical characteristics of sediments of Bhindawas wetland, Jhajjar, Haryana, India; International conference on Technology, Science and Management Innovation (TSMI-15) at M.M. College Fatehabad, Haryana, India, 29 November 2015. (Oral)
7. **Rani Devi**; Changing Environmental Conditions and its impact of Spatio-Temporal Influence on Economy, 28th Annual Conference of Haryana Economic Association, 31st October to 1st November 2015. (Oral)
8. **Rani Devi**; Poster presentation on Wetland: A Foodbowl of Ecological Fauna and Flora; National Conference on Food Technology: Emerging Trends (NCFT-2015), Organized by Department Food Science and Technology, Chaudhary Devi Lal University Sirsa, Haryana, 24-25 March, 2015.
9. **Rani Devi**; An Overview of Mathematical Models for Solving Pollution Diffusion; National Conference on Emerging Trends in Mathematical Sciences (NCETMS-15), Organized by Department of Mathematics, Chaudhary Devi Lal University, Sirsa, Haryana, 17-18 March, 2015. (Oral)
10. **Rani Devi**; Poster presentation on Sewage Water an Alternative Source of Irrigation; National conference on Emerging Trends in Chemical Sciences and Technology (ETCST-15), Organised by Department of Chemistry, Chaudhary Devi Lal University Sirsa (Haryana) from 25 February, 2015.
11. **Rani Devi**; Performance Efficiency Evaluation of Effective Microorganisms (EM) for BOD Reduction of Bhindawas Wetland; **First position on best poster award on the theme of environmental**

biotechnology, In the International Conference on Biotechnology-Emerging Trends (ICB-2012), Organised by Department of Biotechnology, Chaudhary Devi Lal University, Sirsa (Haryana) from 18-20 September, 2012.

12. **Rani Devi**, Poster presentation on environmental management, In national Seminar on interdisciplinary approach in science in emerging scenario (NSIES-13), Organised by Vaish College Bhiwani, 16 March, 2013.
13. Alok Kumar Saran and **Rani Devi**; Poster presentation on Eco-technology for greener future (green bridge); AICTE sponsored International Seminar on Renewable Energy for Institutes and Communities in Urban and Rural Settings (ISREICURS-2012, Manav Institute of Technology and Management (MITM), Jevra, Hisar, Haryana, India, 27-29 April, 2012.
14. **Rani Devi**; "Sludge a Boon for Water Purification"; National Workshop on Environmental Degradation: Issues and Remedies, Dayanand College Hisar, Haryana, India, 28th February 2012. (Oral)
15. **Rani Devi**; Role of Environmental Management in Economic Development; 15th Annual National Conference of Indian Political Economy Association, Ch. Devi Lal University Sirsa, Haryana, India, 29-30 October 2011. (Oral)
16. **Rani Devi** and Rinky, "Energy accounting and reporting in petrochemical sector, A study of India; 5th International Multi Conference on "Intelligent System, Sustainable, New and Renewable Energy Technology and Nanotechnology (IISN-2011), 18-20, 2011. (Oral)
17. **Rani Devi**, Waste Management Practices in Rural India; National Conference on Environmental Degradation: Effects, Challenges & Remedies (EDECR-2010), Jan Nayak Ch. Devi Lal Memorial College of Engineering, Sirsa, Haryana, AICTE Sponsored, 25-27 February 2010. (Oral)
18. Savita Verma and Rani Devi, Removal of Hexavalent Chromium using Agrowaste as low-cost Neem Bark Adsorbent; National Seminar on Environmental Challenges: Sustainable Development, Maharshi Dayanand University Rohtak, 29-30 March 2010. (poster)
19. Alok Kumar Saran, Sanjay Kumar, Dharamber and **Rani Devi**; Poster presentation on Preparation of Biodegradable Polymer from Natural Resources; National Conference on Environmental Degradation: Effects, Challenges & Remedies, Jan Nayak Choudhary Devi Lal University, Sirsa, Haryana, India, 25-27 February, 2010.
20. **Rani Devi**; Biodegradation of PAHs by Thermotolerant Microbes, International conference on Changing Environmental Trends and Sustainable Development (CETAS), Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. 9- 11 February, 2009.
21. Pooja, Promila, Chander Mohan, **Rani Devi** and Navneet Saxena; Determination of Fenvalerate in Milk, National Seminar on Food Safety and Quality, Department of Food Technology, National Seminar on Food Safety and Quality, Department of Food Technology Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. 20-21 October, 2008.
22. **Rani Devi**, Domestic Wastewater Treatment in Decentralized Sectors-An Integrated Approach, 2nd Chandigarh Science Congress (CHASCON 2008) on Empowering India by Scientific Integration, Innovation and Invention, Punjab University, Chandigarh, 14-15 March 2008. (Poster)
23. **Rani Devi**, "Menace of Domestic Wastewater Generated and its treatment for COD and BOD

Removal -A Case Study of a Village in Haryana, India, International conference, **Jimma University Ethiopia, Africa**", 3rd February 2006. (Oral)

24. **Rani (Devi) Sahu**, Vijender Sahu and Gadgil K., " Vermicomposting: A novel technique for recycling of organic waste,"Session of Agriculture and Environmental Biotech; National Conference, Biohorizon (BETA), In Indian Institute of Technology Delhi, 1-2 March 2002; pp. 67.
 25. **Rani Sahu**, Empowerment of women," National Conference on Feminism and Women's Empowerment, Chindvada, MP, 6-8 November 2001, pp. 196- 202.
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Abstracts in proceeding:

1. Praveen Kumar and **Rani Devi**; Zero tillage: A profitable resource technology for sustainable development; National Conference on Ecotoxicology and Health Hazard; UGC sponsored and held at C.R.M. Jat P.G. College Hisar, Haryana, India; 24th March 2012; pp14.
 2. **Rani Devi**; "Indian Biodiversity and conservational efforts for its protection"; In proceeding of National Workshop on Environmental Degradation: Issues and Remedies, Dayanand College Hisar, Haryana, India, 28th February 2012. Pp 51.
 3. **Rani Devi**, "Softening of Hard Water Using Cabbage Seeds" National Conference on Multidisciplinary Approaches in Frontier Areas of Environmental Sciences and Engineering (MAFAESE-2011), held at G. J. University of Science & Technology, Hisar from 4-5 March, 2011, pp. 132.
 4. Rinky and **Rani Sahu**, "Pesticide Pollution-Quantitative Estimation of Exposure and Environmental Impacts (A Study of Sirsa District of Haryana)" In Proceeding of MAFAESE-2011 held at G. J. University of Science & Technology, Hisar from 4-5 March, 2011, pp. 159.
 5. Promila Bishnoi, Chandermohan, Krishan Kumar, Susheel K Sarkar, Navneet Saxena and **Rani Sahu**, "Effect of Sewage water irrigation on some potential toxic elements in sorghum plant" In Proceeding of MAFAESE-2011 held at G. J. University of Science & Technology, Hisar from 4-5 March, 2011, pp.
 6. **Rani Devi**, Veldhuizen E.M. V., Grabowski L. and Dahiya R.P., Efficient Process for Water Cleaning using Pulsed Positive Corona above the Surface, National seminar on Emerging Environmental Issues and Technological Challenges, G.J.U. Hisar, Haryana, India, 1-2 September 2003, pp. 58.
 7. **Rani (Devi) Sahu**, Samriti Sharma and Gadgil K., " Burning problems associated with environment and health" National Conference on Women Scientists and Technologists for national development, Dept. of women and child development Govt. of India, March 2002, pp. 215.
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Conferences/ Seminars/Workshops attended

1. **Rani Devi**, Participated in National Seminar on Recent Trends in Science and Technology, Organized by Faculties of Physical Sciences and Life Sciences, CDLU, Sirsa, Haryana, India February 21st, 2015.

2. **Rani Devi**, One Day National Workshop on Right to Information Act, 2005 Organized by The Department of Public Administration, CDLU, Sirsa in Collaboration with Haryana Institute of Public Administration, Gurgaon on 05.02.2015, Chaudhary Devi Lal University Sirsa (Haryana).
3. **Rani Devi**, National Conference on Advancement in Simulation & Experimental Techniques in Mechanical Engineering (NCASEme-2014); Sponsored by Science and Engineering Research Board and Department of Science and Technology; Chandigarh University, Gharuan, Mohali; 21-22 February 2014.
4. **Rani Devi**, National Programme on Technology Enhanced Learning (IIT Madras), NPTEL Workshop, 7-8 February 2014.
5. **Rani Devi**, National workshop on NPTEL, awareness, Jan Nayak Ch. Devi Lal Memorial College of Engineering, 7th-8th February, 2014.
6. **Rani Devi**; International Water India Conference, Industrial Chamber of Commerce, Hyatt Hotel, New Delhi, India, 15-16 December 2011.
7. **Rani Devi**; International Conference on Emerging Trends in Engineering and Technology, Geeta Institute of Management and Technology (GIMT), Kanipla, Kurukshetra, Haryana, India, 20-22 October 2011.
8. **Rani Devi**; National Workshop on Patent Awareness: Issues and Challenges, Ch. Devi Lal University Sirsa, Haryana, India, 10th August 2011.
9. **Rani Devi**; National Seminar on Biodiversity: Concerns and Solution, M.D. University Rohtak, Haryana, India, 20 November 2009.
10. **Rani Devi**, Attended the Cost Exploratory Workshop on the energy water nexus managing the links between Energy and Water for a Sustainable Future by **European Cooperation in the field of Scientific and Technical Research on special invitation held in Brussels, Belgium from 19-21 January, 2009.**
11. **Rani Devi**; International Conference on Plant Invasion and Forest Ecology: Concerns and Solutions, Punjab University Chandigarh, India, March 16-18, 2009.
12. **Rani Devi**; Role of Information Science and Technology in the Field of Environmental Sciences, National Conference on InfoComm-09, Choudhary Devi Lal University, Sirsa, Haryana, India, February 19, 2009.
13. **Rani Devi**, **Science Conclave: A congregation of Noble Prize Winners** organized by Indian Institute of Information Technology, Allahabad, 15-21 December, 2008.
14. **Rani Devi**, Capacity building in science and technology, policy perspective, challenges and opportunities, New Delhi, 27-29 November, 2007.
15. **Rani Devi**, Participated in the Workshop-cum-Review Committee Meeting under National **Renewable Energy Fellowship Programme by The Ministry of Non-Conventional Energy Sources** at Indian Institute of Technology Delhi, 13-15 July, 2005.
16. **Rani Devi**, Participated in the International conference and International water association UK on Water and Wastewater: perspectives of developing countries (WAPDEC) organized by Indian Institute of Technology Delhi, December 11-13, 2002.
17. **Rani (Devi) Sahu**, Conference of women scientists and technologists: role in national

development, Dept. of women and child development Govt. of India, Vigyan Bhawan, New Delhi 8-9th March, 2002, <http://dbtindia.nic.in/women/paper9.htm>.

18. **Rani (Devi) Sahu**, Map India 2002, International conference, 6th February 2002.
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Ph. D. Awarded Under my Supervision

1. **Pawan Kumar**; An Integrated Approach for the Effective Treatment of Water and Wastewater. Awarded on 1.12.2017.
 2. **Manisha**; Effects of Crop Residue and Irrigation Water Quality on Recently Reclaimed Sodic Soil Fertility Crop Productivity and Air Quality Interface of Rice-Wheat Cropping Pattern. Awarded on 1.12.2017
 3. **Priyanka Singh**; Temporal and Spatial Dynamics of Soil Desurfacing due to Brick Kilns Using Remote Sensing Technique. Awarded in 2015.
 4. **Promila Bishnoi**; Effect of Sewage Water Irrigation on Some Nutritional and Anti- Nutritional Quality of Fodder, awarded on 11.11.13.
 5. **Rinki**; Environmental Impact Assessment of Pesticides in Diet of Infants and Children, awarded on 11.11.13.
 6. **Alok Kumar Saran**; Future Design Forecasting for Improvement and Upgradation of Sewage Treatment Plants of Haryana. Awarded on 30.08.2018.
 7. **Sangeeta**; Effects of Sugar Industry Effluents on soil characteristics and wheat crop. Awarded on 30.08.2018
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M.Phil. Desertations Completed

1. **Praveen**; Adsorption of cadmium using low cost industrial sludge, 2011-2013.
2. **Pawan**; Plant biodiversity study at Aravali hill range in Khanak (crusher zone) of district Bhiwani, Haryana: its ecological and social aspects. 2011-2013.
3. **Suman**; Determination of micronutrients and heavy metals in water, soil and plant materials under various irrigation regimes. 2009-2010.
4. **Manju Bala**; Variation in nutritive value of sorghum under various irrigation regimes. 2009-2010.
5. **Sunita Kumari**; Impact of sewage water irrigation on soil chemistry, fertility and microbiology. 2009-2010.
6. **Jogender Singh**; Impact of tourism on Manali forests, 2008-09.
7. **Pooja**; Determination of Fenvalerate, A Synthetic Pyrethroid, in milk in North-Western Zone of Haryana by HPLC; 2006-2007.
8. **Urmil**; Effect of Animal Waste on Environment and Awareness in Rural Masses of Haryana: A Case Study of Hisar District; 2006-2007.
9. **Sanjeev Kumari**; Development of HPLC Method for Determination of Imidacloprid, (A Neonicotinoids) in Soil Samples; 2006-2007.

10. **Promila**; Cypermethrin Residue Determination in Bovine and Human Milk of Cotton Growing Belt of Haryana by HPLC; 2006-2007.
 11. **Ravi Verma**; Some Studies of Chromium (VI) Removed by Using Low Cost Adsorbent Prepared from Eucalyptus Sawdust and Sugarcane Bagasse; 2006-2007.
 12. **Kalpana Kumari**; Removal of Hexavalent Chromium from Aqueous Solution by Adsorption on Low Cost Adsorbent; 2006-2007.
 13. **Meenu Sharma**; Cadmium (Cd) Removal from Aqueous Solution by using Neem and Peepal as Adsorbents; 2006-2007.
 14. **Nitika**; Effect of Integrated Nutrient Management on Soil Properties and Nutrients Concentration in Rice-Wheat Cropping System under Reclaimed Sodic Soil; 2006-2007.
 15. **Neha Yadav**; Influence of Different Cropping System on Soil Properties in Different Landuse System; 2006-2007.
 16. **Kamlesh**; Treatment of Paper Mill Waste Water by an Integrated System using Aerobic and Anaerobic Digestion; 2006-2007.
 17. **Anjali Madan**; Effect of the Air Pollution on Road Side Plants of Sirsa City, Haryana; 2006-2007.
 18. **Priyanka Panwar**; Surveillance of Incidences of Aflatoxin in Market Samples in Hisar District of Haryana; 2006-2007.
 19. **Sunil Kumar**; Noise pollution-A slow poison: A study of Sirsa City; 2006-2007.
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B. Tech. (French Students visited in my lab in India for project (in 2008, 2009, 2010)

1. **Aurore Magni**; Removal of heavy metals from industrial effluent using peepal and neem bark derived adsorbent. (15th December 2008-10th January, 2009)
2. **Alexandre**; Waste management and energy utilization practices in rural and urban area: a comparison. (2nd -27th August, 2009)
3. **Aurore Caron**; Kitchen wastewater treatment by innovative designed treatment system (30th July-29th August, 2010).